

PTO/SB/08a/b (08-03)
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	10/817,659-Conf. #3413
				Filing Date	April 2, 2004
				First Named Inventor	Gregory J. Wilson
				Art Unit	1742-1795
				Examiner Name	Not Yet Assigned
Sheet	1	of	4	Attorney Docket Number	291958157US4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/NS/	AA	US-5,368,715	11-29-1994	HURLEY ET AL.	
/NS/	AB	US-6,110,345	08-29-2000	IACOPONI	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
/NS/	AC	WO-99/15710	04-01-1999	ON-LINE TECHNOLOGIES, INC.		
/NS/	AD	WO-99/45567	09-10-1999	LAM RESEARCH CORPORATION		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-Issue number(s), publisher, city and/or country where published.	T ²
/NS/	AE	International Search Report for PCT/US01/14509, Applicant: Semitool, Inc., January 19, 2005, 6 pages	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

The PTO did not receive the following
listed item(s) IDS Page 2 of 4
3 of 4, 4 of 4

Examiner Signature	/Nicholas Smith/	Date Considered	10/15/2007
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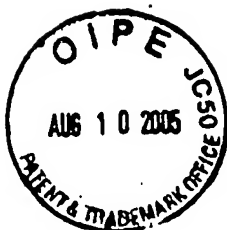
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) (Use several sheets if necessary)				COMPLETE IF KNOWN	
				Application Number	
				Confirmation Number	
				Filing Date	Concurrently Herewith
				First Named Inventor	Gregory J. Wilson
				Group Art Unit	1795
Examiner Name					
Sheet	1	of	1	Attorney Docket No.	291958157US4

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
/NS/		4,648,944		George et al.	03/10/87	
/NS/		4,902,398		Homstad	02/20/90	
/NS/		4,949,671		Davis et al.	08/21/90	
/NS/		4,988,533		Freeman et al.	01/29/91	
/NS/		5,135,636		Yee et al.	08/04/92	
/NS/		5,138,973		Davis et al.	08/18/92	
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/NS/		5,989,397		Laube et al.	11/23/99	
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/NS/		6,028,986		Song	02/22/00	
/NS/		6,151,532		Barone et al.	11/21/00	
/NS/		6,162,488		Gevelber et al.	12/19/00	
/NS/		6,199,301		Wallace	03/13/01	

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Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
/NS/		RITTER et al., "Two- And Three-Dimensional Numerical Modeling of Copper Electroplating For Advanced ULSI Metallization," E-MRS Conference, Symposium M., Basic Models to Enhance Reliability; Strasbourg (France), 1999	

EXAMINER /Nicholas Smith/	DATE CONSIDERED 10/15/2007
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			Application Number	10/817,659	
			Filing Date	April 2, 2004	
			First Named Inventor	Gregory J. Wilson	
			Art Unit	N/A 1795	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	11	Attorney Docket Number	291958157US4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code² (if known)			
/NS/		US-09/679,928		Woodruff et al.	
		US-1,526,644	02-17-1925	Pinney	
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		US-10/817,659		Wilson et al.	
		US-2,256,274	09-16-1941	Boedecker et al.	
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Substitute for form 1448A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Complete if Known		
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Sheet	2	of	11	Attorney Docket Number	291958157US4

/NS/	US-4,113,577	09-12-1978	Ross et al.	
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	US-4,137,867	02-06-1979	Aigo	
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/NS/	US-4,687,552	08-18-1987	Early et al.	

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/NS/		US-4,693,017	09-15-1987	Oehler et al.	
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			Filing Date	April 2, 2004	
			First Named Inventor	Gregory J. Wilson	
			Art Unit	N/A - 1795	
			Examiner Name	Not Yet Assigned	
Sheet	4	of	11	Attorney Docket Number	291958157US4

/NS/	US-5,168,887	12-08-1992	Thompson et al.	
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/NS/	US-5,377,708	01-03-1995	Bergman et al.	

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/NS/	US-5,388,945	02-14-1995	Garric et al.	
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			Application Number	10/817,659	
			Filing Date	April 2, 2004	
			First Named Inventor	Gregory J. Wilson	
			Art Unit	N/A - 1795	
			Examiner Name	Not Yet Assigned	
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			Art Unit	N/A 1795	
			Examiner Name	Not Yet Assigned	
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			Art Unit	N/A - 1795	
			Examiner Name	Not Yet Assigned	
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			Art Unit	N/A - 1795	
			Examiner Name	Not Yet Assigned	
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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
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				Art Unit	N/A - 1795
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				Filing Date	April 2, 2004
				First Named Inventor	Gregory J. Wilson
				Art Unit	1742- 1795
				Examiner Name	L. L. Zheng
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		Country Code ³ -Number ² -Kind Code ⁵ (if known)				
/NS/		JP-07-197299	08-01-1995	Casio Comput Co. Ltd.		

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				Art Unit	1742 1795
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/NS/		JP-59-150094	08-28-1984	Teichiku KK		✓
/NS/		JP-03-103840	11-04-1992	Uemura		

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/817,659-Conf. #3413
				Filing Date	April 2, 2004
				First Named Inventor	Gregory J. Wilson
				Art Unit	1742 1795
				Examiner Name	L. L. Zheng
Sheet	1	of	1	Attorney Docket Number	291958157US4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/NS/		US-3,880,725	04/1975	Van Raalte et al.	
		US-4,600,463	07-15-1986	Algo et al.	
		US-4,773,436	09-27-1988	Cantrell et al.	
		US-4,814,197	03-21-1989	Duffy et al.	
		US-4,824,538	04-25-1989	Hibino et al.	
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		US-5,651,836	07-29-1997	Suzuki et al.	
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/NS/		US-6,168,693	01-02-2001	Uzoh et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/NS/		DE-3240300	05-03-1984	Hoesch & Soehne Eberhard	
/NS/		FR-276334	11-20-1998	Motorola, Inc.	

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/NS/		European Search Report of European Patent Application No. EP 00 92 2221, Applicant: Semitool, Inc., July 18, 2006, 3 pgs	
/NS/		Singer, P., "Nonuniformity of Copper Electroplating Studied," http://www.reed-electronics.com/semiconductor/index.asp?layout=articlePrint&articleD-CA164126r1 ; Semiconductor International, June 1, 1998, 2 pgs.	

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